

In the Claims

Applicant has submitted a new complete claim set showing marked up claims with insertions indicated by underlining and deletions indicated by strikeouts and/or double bracketing.

Please cancel claims 1-34 and 53-63, without prejudice or disclaimer.

Please amend pending claims 41, 42, and 43 as noted below.

1-34. (Cancelled).

35. (Original) A composition comprising:

a chromophore;

a shape-persistent molecule having at least 20% free volume; and

a host material within which the shape-persistent molecule self-orient.

36. (Original) A composition as in claim 35, where the shape-persistent molecule includes at least two aromatic rings, each parallel to a common axis in a lowest energy state of the composition.

37. (Original) A composition as in claim 35, wherein the chromophore is bonded to the shape-persistent molecule.

38. (Original) A composition as in claim 35, wherein the chromophore is a fluorescent entity.

39. (Original) A composition as in claim 35, further comprising a liquid crystalline species.

40. (Original) A composition as in claim 39, comprising:

a plurality of liquid crystalline species, each having a primary axis aligned so as to together define an average axis of the liquid crystalline species primary axes; and

a plurality of chromophores each having a primary axis aligned so as to together define an average axis of the chromophore primary axes,

wherein the alignment of the individual chromophores relative to the average axis of the chromophore primary axes includes less variation than the alignment of the individual liquid crystalline species relative to the average axis of the liquid crystalline species primary axes.

41. (Currently amended) An article defining a size-exclusion article, comprising a composition as in claim ~~43~~35.
42. (Currently amended) An article comprising an electrode, and a composition as in claim ~~43~~35 associated with the electrode.
43. (Currently amended) A composition comprising a first component as in claim ~~43~~35 and a second component that has a high molecular weight linear polymer such that the composition has superior strength compared to a composition that lacks the first component.
44. (Original) A composition as in claim 43 wherein the first component comprises an ipitycene.
45. (Original) A composition as in claim 35, comprising polymerizable groups.
46. (Original) A composition as in claim 35, wherein the chromophore is a liquid crystal.
47. (Original) A composition as in claim 35, wherein the host material comprises a plurality of liquid crystalline species, each having a primary axis aligned so as to together define an average axis of the liquid crystalline species primary axes, wherein the chromophore has a transition moment that is essentially parallel to the average axis of the liquid crystalline species primary axes.

48. (Original) A composition as in claim 35, wherein the host material comprises a plurality of liquid crystalline species, each having a primary axis aligned so as to together define an average axis of the liquid crystalline species primary axes, wherein the chromophore has a transition moment that is essentially perpendicular to the average axis of the liquid crystalline species primary axes.

49. (Original) A composition as in claim 35, further comprising a plurality of liquid crystalline species, wherein the chromophore self-oriens relative to the liquid crystalline species.

50. (Original) A molecule as in claim 35 wherein the dichroic molecule exhibits a greater order parameter than the liquid crystal host.

51. (Original) A molecule as in claim 35 wherein the dichroic molecule is fluorescent.

52. (Original) A molecule as in claim 35 wherein first component is an iptycene.

53-63. (Cancelled).